

## **RAW SEQUENCE LISTING**

**The Biotechnology Systems Branch of the Scientific and Technical  
Information Center (STIC) no errors detected.**

Application Serial Number: 10/577,861  
Source: LEWP  
Date Processed by STIC: 05/11/2006

# ***ENTERED***



IFWP

## RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,861

TIME: 11:15:06

Input Set : A:\CARL3006.ST25.txt

Output Set: N:\CRF4\05112006\J577861.raw

```

3 <110> APPLICANT: CARLIN, Nils
4     LEBENS, Michael
6 <120> TITLE OF INVENTION: SBL Vaccin AB
8 <130> FILE REFERENCE: CARL3006
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/577,861
C--> 10 <141> CURRENT FILING DATE: 2006-04-28
10 <150> PRIOR APPLICATION NUMBER: PCT/SE2004/001571
11 <151> PRIOR FILING DATE: 2004-10-29
13 <150> PRIOR APPLICATION NUMBER: GB 0325494.3
14 <151> PRIOR FILING DATE: 2003-10-31
16 <160> NUMBER OF SEQ ID NOS: 13
18 <170> SOFTWARE: PatentIn version 3.3
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 2759
22 <212> TYPE: DNA
23 <213> ORGANISM: Artificial
25 <220> FEATURE:
26 <223> OTHER INFORMATION: Plasmid pMT - ctxBthyA-2
28 <400> SEQUENCE: 1
29 ctcgagggttt gttcctgatt ggttacggcg cgtttcgcat cattgttgag tttttccgcc      60
31 agccccgacgc gcagtttacc ggtgcctggg tgcagtacat cagcatgggg caaatctctt      120
33 ccatcccgat gattgtcgcg ggtgtgatca tgatggtctg ggcatatcgt cgcagcccac      180
35 agcaacacgt ttcctgagga accatgaaac agtatattaga actgatgcaa aaagtgtctg      240
37 acgaaggcac acagaaaaac gaccgtaccg gaaccggaac gctttccatt tttggtcac      300
39 agatgcgttt taacctgcaa gatggattcc ggctggtgac aactaaacgt tgccacctgc      360
41 gttccatcat ccatgaactg ctgtggtttc tgcagggcga cactaacatt gcttatctac      420
43 acgaaaacaa tgtcaccatc tgggacgaat gggccgatga aaacggcgac ctcgggccag      480
45 tgtatggtaa acagtggcgc gcctggccaa cgccagatgg tcgtcatatt gaccagatca      540
47 ctacgggtact gaaccagctg aaaaacgacc cggattcgcg ccgcattatt gtttcagcgt      600
49 ggaacgtagg cgaactggat aaaatggcgc tggcaccgtg ccatgcattc ttccagttct      660
51 atgtggcaga cggcaaactc tcttgccagc tttatcagcg ctctgtgac gtcttctctg      720
53 gcctgccggt caacattgcc agctacgcgt tattggtgca tatgatggcg cagcagtgcg      780
55 atctggaagt ggggtgattt gtctggaccg gtggcgacac gcatctgtac agcaaccata      840
57 ttgatcaaac tcatctgcaa ttaagccgcg aaccgcgtcc gctgccgaag ttgattatca      900
59 aacgtaaacc cgaatccatc ttcgactacc gtttcgaaga ctttgagatt gaaggctacg      960
61 atccgcatcc gggcattaaa gcgcgggtgg ctatctaatt acgaaacatc ctgccagagc     1020
63 cgacgccagt gtgcgtcggg ttttttaccg tccgttaaat tcttcgagac gccttcccga     1080
65 aattttgcaa cgtcctgcaa cggcgtaaat agtccggaag atgcgccgaa gaaatagaaa     1140
67 cgtcgaatca agcttatcga taccgtcgac cttgaagagc aaggatctag gtgaagatcc     1200
69 tttttgataa tctcatgacc aaaatccctt aacgtgagtt ttcgttccac tgagcgtcag     1260
71 accccgtaga aaagatcaaa ggatcttctt gagatccttt ttttctgcgc gtaatctgct     1320
73 gcttgcaaac aaaaaaacca ccgctaccag cggtggtttg tttgccggat caagagctac     1380
75 caactctttt tccgaaggta actggcttca gcagagcgca gataccaaat actgtccttc     1440

```

## RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,861

TIME: 11:15:06

Input Set : A:\CARL3006.ST25.txt

Output Set: N:\CRF4\05112006\J577861.raw

```

77 tagtgtagcc gtagttaggc caccacttca agaactctgt agcaccgcct acatacctcg 1500
79 ctctgctaata cctgttacca gtggctgctg ccagtggcga taagtcgtgt cttaccgggt 1560
81 tggactcaag acgatagtta ccggataagg cgcagcggtc gggctgaacg ggggggttcgt 1620
83 gcacacagcc cagcttgag cgaacgacct acaccgaact gagataccta cagcgtgagc 1680
85 tatgagaaag cgccacgctt cccgaaggga gaaaggcgga caggatccg gtaagcggca 1740
87 gggtcggaac aggagagcgc acgaggagc ttccagggg aaacgcctgg catctttata 1800
89 gtcctgtcgg gtttcgccac ctctgacttg atcgtcgatt tttgtgatgc tcgtcagggg 1860
91 ggcggagcct atggaaaaac gccagcaacg cggccttttt acggttcctg gccttttgct 1920
93 ggccttttgc tcacatgttc tttcctgcgt tatcccctga ttctgtggat aaccgtatta 1980
95 ccgcctttga gtgagctgat accgctcgcc gcagccgaac gaccgagcgc agcgagtcag 2040
97 tgagcgagga agcgatggaa gagcagatcc gggcttatcg actgcacggt gcaccaatgc 2100
99 ttctggcgtc aggcagccat cggaagctgt ggtatggctg tgcaggctcg aaatcactgc 2160
101 ataattcgtg tcgctcaagg cgcactcccg ttctggataa tgttttttgc gccgacatca 2220
103 taacggttct ggcaaataat ctgaaatgag ctgttgacaa ttaatcatcg gctcgtataa 2280
105 tgtgtggaat tgtgagcgga taacaatttc acacaggaaa cagaattcgg gatgaattat 2340
107 gaataaagta aaattttatg ttttatttac ggcgttacta tcctctctat gtgcacacgg 2400
109 agctcctcaa aatattactg atttgtgtgc agaataccac aacacacaaa tacatacgtc 2460
111 aaatgataag atattttcgt atacagaatc tctagctgga aaaagagaga tggctatcat 2520
113 tactttttaag aatggtgcaa cttttcaagt agaagtacca ggtagtcaac atatagattc 2580
115 acaaaaaaaaa gcgattgaaa ggatgaagga taccctgagg attgcatatc ttactgaagc 2640
117 taaagtcgaa agtttatgtg tatggaataa taaaacgcct catgcgattg ccgcaattag 2700
119 tatggcaaat taaactagtc aattgaagct tagcccgct aatgagcggg ctttttttt 2759
122 <210> SEQ ID NO: 2
123 <211> LENGTH: 21
124 <212> TYPE: PRT
125 <213> ORGANISM: Artificial
127 <220> FEATURE:
128 <223> OTHER INFORMATION: Escherichia coli
130 <400> SEQUENCE: 2
132 Met Asn Lys Val Lys Phe Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser
133 1 5 10 15
136 Leu Cys Ala His Gly
137 20
140 <210> SEQ ID NO: 3
141 <211> LENGTH: 6
142 <212> TYPE: PRT
143 <213> ORGANISM: Artificial
145 <220> FEATURE:
146 <223> OTHER INFORMATION: Vibrio cholerae
148 <400> SEQUENCE: 3
150 Thr Pro Gln Asn Ile Thr
151 1 5
154 <210> SEQ ID NO: 4
155 <211> LENGTH: 6
156 <212> TYPE: PRT
157 <213> ORGANISM: Artificial
159 <220> FEATURE:
160 <223> OTHER INFORMATION: Vibrio cholerae
162 <400> SEQUENCE: 4

```

## RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,861

TIME: 11:15:06

Input Set : A:\CARL3006.ST25.txt

Output Set: N:\CRF4\05112006\J577861.raw

```

164 Ala Pro Gln Asn Ile Thr
165 1 5
168 <210> SEQ ID NO: 5
169 <211> LENGTH: 21
170 <212> TYPE: PRT
171 <213> ORGANISM: Artificial
173 <220> FEATURE:
174 <223> OTHER INFORMATION: Escherichia coli
176 <400> SEQUENCE: 5
178 Met Asn Lys Val Lys Cys Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser
179 1 5 10 15
182 Leu Cys Ala Tyr Gly
183 20
186 <210> SEQ ID NO: 6
187 <211> LENGTH: 28
188 <212> TYPE: PRT
189 <213> ORGANISM: Artificial
191 <220> FEATURE:
192 <223> OTHER INFORMATION: Vibrio cholerae
194 <400> SEQUENCE: 6
196 Met Asn Lys Val Lys Phe Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser
197 1 5 10 15
200 Leu Cys Ala His Gly Ala Pro Gly Tyr Ala His Gly
201 20 25
204 <210> SEQ ID NO: 7
205 <211> LENGTH: 15
206 <212> TYPE: PRT
207 <213> ORGANISM: Artificial
209 <220> FEATURE:
210 <223> OTHER INFORMATION: Vibrio cholerae
212 <400> SEQUENCE: 7
214 Asn Lys Val Lys Phe Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser
215 1 5 10 15
218 <210> SEQ ID NO: 8
219 <211> LENGTH: 31
220 <212> TYPE: DNA
221 <213> ORGANISM: Artificial
223 <220> FEATURE:
224 <223> OTHER INFORMATION: Vibrio cholerae
226 <400> SEQUENCE: 8
227 gctctagagc tacggtcttg atttacggta t 31
230 <210> SEQ ID NO: 9
231 <211> LENGTH: 33
232 <212> TYPE: DNA
233 <213> ORGANISM: Artificial
235 <220> FEATURE:
236 <223> OTHER INFORMATION: Escherichia coli
238 <400> SEQUENCE: 9
239 gggggctcga ggtttgttcc tgattgggta cgg 33

```

## RAW SEQUENCE LISTING

DATE: 05/11/2006

PATENT APPLICATION: US/10/577,861

TIME: 11:15:07

Input Set : A:\CARL3006.ST25.txt

Output Set: N:\CRF4\05112006\J577861.raw

```

242 <210> SEQ ID NO: 10
243 <211> LENGTH: 36
244 <212> TYPE: DNA
245 <213> ORGANISM: Artificial
247 <220> FEATURE:
248 <223> OTHER INFORMATION: Escherichia coli
250 <400> SEQUENCE: 10
251 ggggggtcga cgtttctatt tcttcggcgc atcttc 36
254 <210> SEQ ID NO: 11
255 <211> LENGTH: 40
256 <212> TYPE: DNA
257 <213> ORGANISM: Artificial
259 <220> FEATURE:
260 <223> OTHER INFORMATION: Vibrio cholerae
262 <400> SEQUENCE: 11
263 gggggactag tttaattgc cataactaatt gcggcaatcg 40
266 <210> SEQ ID NO: 12
267 <211> LENGTH: 41
268 <212> TYPE: DNA
269 <213> ORGANISM: Artificial
271 <220> FEATURE:
272 <223> OTHER INFORMATION: Vibrio cholerae
274 <400> SEQUENCE: 12
275 gggggactag tcaattgaag cttaagcccg cctaattgagc g 41
278 <210> SEQ ID NO: 13
279 <211> LENGTH: 21
280 <212> TYPE: PRT
281 <213> ORGANISM: Artificial
283 <220> FEATURE:
284 <223> OTHER INFORMATION: Escherichia coli
286 <400> SEQUENCE: 13
288 Met Asn Lys Val Lys Cys Tyr Val Leu Phe Thr Ala Leu Leu Ser Ser
289 1 5 10 15
292 Leu Cys Ala Tyr Gly
293 20

```

RAW SEQUENCE LISTING ERROR SUMMARY  
PATENT APPLICATION: US/10/577,861

DATE: 05/11/2006  
TIME: 11:15:08

Input Set : A:\CARL3006.ST25.txt  
Output Set: N:\CRF4\05112006\J577861.raw

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,  
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,5,6,7,8,9,10,11,12,13

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/577,861

DATE: 05/11/2006

TIME: 11:15:08

Input Set : A:\CARL3006.ST25.txt

Output Set: N:\CRF4\05112006\J577861.raw

L:10 M:270 C: Current Application Number differs, Replaced Current Application No

L:10 M:271 C: Current Filing Date differs, Replaced Current Filing Date